

Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF032519\  
 Data File : VF062127.D  
 Acq On : 25 Mar 2019 12:48  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 26 04:50:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F032219S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 23 01:16:37 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 90    | -0.05    |
| 2 T   | Dichlorodifluoromethane     | 0.641 | 0.682 | -6.4   | 97    | -0.01    |
| 3 P   | Chloromethane               | 0.670 | 0.714 | -6.6   | 96    | -0.01    |
| 4 C   | Vinyl Chloride              | 0.620 | 0.681 | -9.8#  | 98    | -0.02    |
| 5 T   | Bromomethane                | 0.446 | 0.470 | -5.4   | 97    | -0.01    |
| 6 T   | Chloroethane                | 0.312 | 0.339 | -8.7   | 97    | -0.03    |
| 7 T   | Trichlorofluoromethane      | 0.749 | 0.844 | -12.7  | 98    | -0.03    |
| 8 T   | Diethyl Ether               | 0.171 | 0.166 | 2.9    | 87    | -0.02    |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.511 | 0.541 | -5.9   | 93    | -0.04    |
| 10 T  | Methyl Iodide               | 0.971 | 1.015 | -4.5   | 94    | -0.03    |
| 11 T  | Tert butyl alcohol          | 0.020 | 0.021 | -5.0   | 90    | -0.04    |
| 12 CM | 1,1-Dichloroethene          | 0.482 | 0.489 | -1.5#  | 91    | -0.03    |
| 13 T  | Acrolein                    | 0.025 | 0.028 | -12.0  | 95    | -0.02    |
| 14 T  | Allyl chloride              | 0.515 | 0.729 | -41.6# | 126   | -0.02    |
| 15 T  | Acrylonitrile               | 0.072 | 0.070 | 2.8    | 89    | -0.03    |
| 16 T  | Acetone                     | 0.078 | 0.091 | -16.7  | 88    | -0.02    |
| 17 T  | Carbon Disulfide            | 1.470 | 1.561 | -6.2   | 93    | -0.03    |
| 18 T  | Methyl Acetate              | 0.187 | 0.182 | 2.7    | 96    | -0.02    |
| 19 T  | Methyl tert-butyl Ether     | 0.762 | 0.816 | -7.1   | 96    | -0.03    |
| 20 T  | Methylene Chloride          | 0.534 | 0.482 | 9.7    | 92    | -0.02    |
| 21 T  | trans-1,2-Dichloroethene    | 0.464 | 0.489 | -5.4   | 92    | -0.03    |
| 22 T  | Diisopropyl ether           | 1.349 | 1.408 | -4.4   | 96    | -0.03    |
| 23 T  | Vinyl Acetate               | 0.552 | 0.604 | -9.4   | 97    | -0.03    |
| 24 P  | 1,1-Dichloroethane          | 0.809 | 0.847 | -4.7   | 97    | -0.03    |
| 25 T  | 2-Butanone                  | 0.163 | 0.171 | -4.9   | 88    | -0.04    |
| 26 T  | 2,2-Dichloropropane         | 0.328 | 0.362 | -10.4  | 96    | -0.03    |
| 27 T  | cis-1,2-Dichloroethene      | 0.614 | 0.642 | -4.6   | 97    | -0.04    |
| 28 T  | Bromochloromethane          | 0.331 | 0.333 | -0.6   | 86    | -0.04    |
| 29    | Tetrahydrofuran             | 0.071 | 0.072 | -1.4   | 93    | -0.04    |
| 30 C  | Chloroform                  | 0.855 | 0.890 | -4.1#  | 96    | -0.04    |
| 31 T  | Cyclohexane                 | 0.845 | 0.874 | -3.4   | 93    | -0.04    |
| 32 T  | 1,1,1-Trichloroethane       | 0.520 | 0.658 | -26.5# | 116   | -0.04    |
| 33 S  | 1,2-Dichloroethane-d4       | 0.372 | 0.379 | -1.9   | 85    | -0.04    |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 97    | -0.04    |
| 35 S  | Dibromofluoromethane        | 0.338 | 0.360 | -6.5   | 95    | -0.04    |
| 36 T  | 1,1-Dichloropropene         | 0.476 | 0.491 | -3.2   | 98    | -0.04    |
| 37 T  | Ethyl Acetate               | 0.208 | 0.196 | 5.8    | 92    | -0.05    |
| 38 T  | Carbon Tetrachloride        | 0.325 | 0.358 | -10.2  | 103   | -0.03    |
| 39 T  | Methylcyclohexane           | 0.553 | 0.582 | -5.2   | 94    | -0.04    |
| 40 TM | Benzene                     | 1.277 | 1.278 | -0.1   | 95    | -0.04    |
| 41 T  | Methacrylonitrile           | 0.110 | 0.101 | 8.2    | 85    | -0.04    |
| 42 TM | 1,2-Dichloroethane          | 0.302 | 0.302 | 0.0    | 94    | -0.04    |
| 43 T  | Isopropyl Acetate           | 0.252 | 0.245 | 2.8    | 93    | -0.04    |
| 44 TM | Trichloroethene             | 0.390 | 0.392 | -0.5   | 95    | -0.04    |
| 45 C  | 1,2-Dichloropropane         | 0.305 | 0.276 | 9.5#   | 86    | -0.05    |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.186 | 0.184 | 1.1   | 93    | -0.04    |
| 47 T  | Bromodichloromethane        | 0.412 | 0.425 | -3.2  | 98    | -0.04    |
| 48 T  | Methyl methacrylate         | 0.144 | 0.139 | 3.5   | 91    | -0.04    |
| 49 T  | 1,4-Dioxane                 | 0.001 | 0.001 | 0.0   | 79    | -0.04    |
| 50 S  | Toluene-d8                  | 1.010 | 1.044 | -3.4  | 89    | -0.04    |
| 51 T  | 4-Methyl-2-Pentanone        | 0.169 | 0.165 | 2.4   | 94    | -0.04    |
| 52 CM | Toluene                     | 0.739 | 0.781 | -5.7# | 101   | -0.04    |
| 53 T  | t-1,3-Dichloropropene       | 0.324 | 0.338 | -4.3  | 100   | -0.04    |
| 54 T  | cis-1,3-Dichloropropene     | 0.463 | 0.466 | -0.6  | 95    | -0.04    |
| 55 T  | 1,1,2-Trichloroethane       | 0.210 | 0.207 | 1.4   | 90    | -0.05    |
| 56 T  | Ethyl methacrylate          | 0.251 | 0.256 | -2.0  | 94    | -0.05    |
| 57 T  | 1,3-Dichloropropane         | 0.349 | 0.363 | -4.0  | 95    | -0.04    |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.038 | 0.037 | 2.6   | 88    | -0.04    |
| 59 T  | 2-Hexanone                  | 0.124 | 0.123 | 0.8   | 87    | -0.04    |
| 60 T  | Dibromochloromethane        | 0.292 | 0.307 | -5.1  | 96    | -0.04    |
| 61 T  | 1,2-Dibromoethane           | 0.224 | 0.224 | 0.0   | 89    | -0.04    |
| 62 S  | 4-Bromofluorobenzene        | 0.390 | 0.393 | -0.8  | 91    | -0.03    |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 92    | -0.04    |
| 64 T  | Tetrachloroethene           | 0.386 | 0.398 | -3.1  | 94    | -0.04    |
| 65 PM | Chlorobenzene               | 0.936 | 1.007 | -7.6  | 97    | -0.04    |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.376 | 0.402 | -6.9  | 96    | -0.04    |
| 67 C  | Ethyl Benzene               | 1.627 | 1.756 | -7.9# | 99    | -0.03    |
| 68 T  | m/p-Xylenes                 | 0.608 | 0.646 | -6.3  | 98    | -0.04    |
| 69 T  | o-Xylene                    | 0.637 | 0.669 | -5.0  | 90    | -0.03    |
| 70 T  | Styrene                     | 0.965 | 1.007 | -4.4  | 99    | -0.03    |
| 71 P  | Bromoform                   | 0.192 | 0.195 | -1.6  | 93    | -0.03    |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 94    | -0.02    |
| 73 T  | Isopropylbenzene            | 3.518 | 3.925 | -11.6 | 101   | -0.03    |
| 74 T  | N-amyl acetate              | 0.838 | 0.884 | -5.5  | 93    | -0.03    |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.604 | 0.635 | -5.1  | 93    | -0.03    |
| 76 T  | 1,2,3-Trichloropropane      | 0.425 | 0.426 | -0.2  | 95    | -0.03    |
| 77 T  | Bromobenzene                | 0.860 | 0.919 | -6.9  | 101   | -0.04    |
| 78 T  | n-propylbenzene             | 4.085 | 4.266 | -4.4  | 97    | -0.02    |
| 79 T  | 2-Chlorotoluene             | 2.271 | 2.463 | -8.5  | 98    | -0.03    |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.894 | 3.092 | -6.8  | 96    | -0.03    |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.173 | 0.179 | -3.5  | 89    | -0.03    |
| 82 T  | 4-Chlorotoluene             | 2.328 | 2.470 | -6.1  | 100   | -0.03    |
| 83 T  | tert-Butylbenzene           | 3.029 | 3.265 | -7.8  | 97    | -0.03    |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.837 | 3.030 | -6.8  | 98    | -0.03    |
| 85 T  | sec-Butylbenzene            | 3.919 | 4.098 | -4.6  | 95    | -0.02    |
| 86 T  | p-Isopropyltoluene          | 3.395 | 3.680 | -8.4  | 103   | -0.03    |
| 87 T  | 1,3-Dichlorobenzene         | 1.597 | 1.697 | -6.3  | 101   | -0.03    |
| 88 T  | 1,4-Dichlorobenzene         | 1.558 | 1.612 | -3.5  | 94    | -0.03    |
| 89 T  | n-Butylbenzene              | 3.239 | 3.496 | -7.9  | 98    | -0.03    |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.808 | 0.864 | -6.9 | 95    | -0.02    |
| 91 T | 1,2-Dichlorobenzene         | 1.500 | 1.552 | -3.5 | 95    | -0.03    |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.092 | 0.099 | -7.6 | 94    | -0.03    |
| 93 T | 1,2,4-Trichlorobenzene      | 1.045 | 1.110 | -6.2 | 101   | -0.02    |
| 94 T | Hexachlorobutadiene         | 0.695 | 0.737 | -6.0 | 97    | -0.02    |
| 95 T | Naphthalene                 | 1.831 | 1.891 | -3.3 | 89    | -0.02    |
| 96 T | 1,2,3-Trichlorobenzene      | 0.978 | 1.069 | -9.3 | 99    | -0.02    |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6